TRANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER TAN-500					
DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)					
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
PCT/JP2005/007111 April 6, 2005	April 12, 2004					
TITLE OF INVENTION METHOD OF SURFACE MODIFICATION FOR THERMAL SHOCK RESISTANCE AND A MEMBER THEREOF						
APPLICANT(S) FOR DO/EO/US SAKA, Hiroyasu; MOON, Won-Jin; UCHIMURA, Shouji; ITO, Toshiro						
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:						
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4. The US has been elected (Article 31).						
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
a. is attached hereto (required only if not communicated by the Internatio	nal Bureau).					
b. 🗸 has been communicated by the International Bureau.						
c. is not required, as the application was filed in the United States Receiv	ving Office (RO/US).					
6. An English language translation of the International Application as filed (35 U.S.	C. 371(c)(2)).					
a. is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d)(4).	b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7. Amendments to the claims of the International Application under PCT Article 19	(35 U.S.C. 371(c)(3))					
a. are attached hereto (required only if not communicated by the Interna						
b. have been communicated by the International Bureau.	b. have been communicated by the International Bureau.					
c. have not been made; however, the time limit for making such amend	c. have not been made; however, the time limit for making such amendments has NOT expired.					
d. have not been made and will not be made.						
8. An English language translation of the amendments to the claims under PCT A	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern document(s) or information included:						
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.						
12. An assignment document for recording. A separate cover sheet in compliance v	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.	A preliminary amendment.					
14. An Application Data Sheet under 37 CFR 1.76.	An Application Data Sheet under 37 CFR 1.76.					
15. A substitute specification.	A substitute specification.					
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.					
17. A computer-readable form of the sequence listing in accordance with PCT Rule	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18. A second copy of the published International Application under 35 U.S.C. 154(c	A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19. A second copy of the English language translation of the international application	on under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICAT	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/JP2005/007111		TAN-500			
20. Other items or information:						
PCT Documents						
The follo	owing fees have b	een submitted			CALCULATIONS	PTO USE ONLY
21. 🗸 Basi	c national fee (37	CFR 1.492(a))		\$300	\$ 300	
22. 📝 Exam						
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations\$200				\$ 200		
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority				\$ 400		
	TOTAL OF 21 22	2 and 23 =				
TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) in an electronic medium or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction RATE thereof (round up to a whole number)				
- 100 =	/50 =			× \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).			\$			
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims		- 20 =		× \$ 50	\$	
Independent clair	ms	- 3 =	-	× \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360			+ \$360	\$		
TOTAL OF ABOVE CALCULATIONS =			CALCULATIONS =	\$		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.						
SUBTOTAL =				\$		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$			
TOTAL NATIONAL FEE =				\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			\$			
TOTAL FEES ENCLOSED =				\$		
					Amount to be refunded:	\$
					Amount to be charged	\$ 900

а. 🔲	A check in the amount of \$ to cover the above	fees is enclosed.				
b. 🗸	Please charge my Deposit Account No. $\underline{503913}$ in the amount of \$ $\underline{9}$ A duplicate copy of this sheet is enclosed.	to cover the above fees.				
c. 🗸	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 2003 13. A duplicate copy of this sheet is enclosed.					
d. 🗀	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. The PTO-2038 should only be mailed or faxed to the USPTO. However, when paying the basic national fee, the PTO-2038 may NOT be faxed to the USPTO.					
	ADVISORY : If filing by EFS-Web, do NOT attach the PTO-2038 form as a PDF along with your EFS-Web submission. Please be advised that this is not recommended and by doing so your credit card information may be displayed via PAIR . To protect your information, it is recommended paying fees online by using the electronic payment method.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
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SEND ALL CORRESPONDENCE TO:		La Vaght				
		SIGNATURE				
121179	12179	Jason D. Voight				
62479		42.205				
		REGISTRATION NUMBER				